



PATENT

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application

No. 10/693,171

KETCHUM et al.

Examiner: Unknown

Filed: 10/23/2003

For: CHANNEL ESTIMATION AND  
SPATIAL PROCESSING FOR  
TDD MIMO SYSTEMS

Group No. 2821

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 CFR § 1.97(c)**

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Commissioner:

Applicants submit herewith references of which they are aware in accordance with 37 CFR § 1.56.

**CERTIFICATE OF MAILING/TRANSMISSION (37 CFR 1.8(a))**

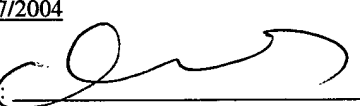
I hereby certify that this correspondence is, on the date shown below, being:

**MAILING**

- ☒ deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Depositor's Name: Karyn D. Lao  
(type or print name)

Date: 7/7/2004

Signature: 

**FACSIMILE**

- ☐ transmitted by facsimile to the Patent and Trademark Office.

Depositor's Name: \_\_\_\_\_  
(type or print name)

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

In accordance with 37 CFR § 1.98 submitted herewith for consideration by the Examiner are the patents, publications and other information shown on the attached PTO-1449.

The citation of these references is not intended to constitute an admission that any reference referred to herein is prior art to the invention of this application unless specifically designated as such.

The filing of this document shall not be construed to mean that any search has been made or, that if made, such search was complete or exhaustive, or that no other material information as defined in 37 CFR § 1.56 exists.

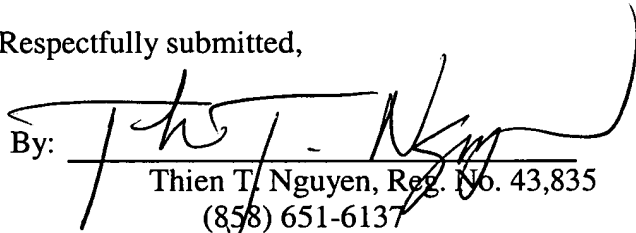
A list of the references cited herein is set forth on Form PTO-1449 which is enclosed herewith in duplicate along with a copy of each cited reference. Applicants respectfully request that the Examiner return to Applicants the enclosed copy of the Form PTO-1449 indicating consideration of the references.

☒ The undersigned hereby certifies that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.

Dated: 7/7/2004

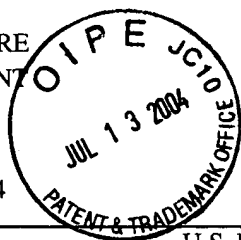
Respectfully submitted,

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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (REV. 7-80) PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 020613	APPLICATION NO. 10/693,171
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		APPLICANT KETCHUM et al.	
		FILING DATE 10/23/2003	GROUP 2821
DATE MAILED: July 7, 2004			



## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	Ref No	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPRO- PRIATE
	A1	6,452,981	9/17/2002	Raleigh et al.			
	A2						
	A3						
	A4						
	A5						
	A6						
	A7						
	A8						
	A9						
	A10						

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	Ref No	DOCUMENT NUMBER	DATE	COUNTRY	NAME	CLASS	SUB CLASS
	B1	02/078211	10/3/2002	WO	QUALCOMM INCORPORATED		
	B2						
	B3						
	B4						
	B5						

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Page, Etc.)

	C1		
	C2		
	C3		
EXAMINER			DATE CONSIDERED
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			